In the Verdigris River Basin, rainfall amounts from April 13 to 19 ranged from 3.33 inches at Toronto, Kans., to 8.24 inches at Claremore, Okla. Precipitation over the Grand Lake area in Oklahoma from April 14 to 19, ranged from 7.62 inches at Jay to 10.44 inches at Spavinaw, while below Pensacola Dam stations reported amounts ranging from 2.51 inches at Sallisaw, Okla., to 10.4 inches at Pryor, Okla.

The crest stages for a few stations compared with the

previous highest stages of record are as follows:

River and station	Flood stage	Apri	l 1941	Previous high		
		Crest	Date	Stage	Date	
	Feet	Feet	_	Feet		
Bourbeuse River: Union, Mo	12	17.0	21	19. 2	October 1919.	
Meramec River:				1		
Sullivan, Mo	11	16.3	20	15.7	May 1937.	
Pacific, Mo	11	20.0	22	30.8		
Valley Park, Mo	14	21.6	23	30.7		
Gasconade River: Jerome, Mo	15	22.3	21	28.6	August 1915.	
Osage River:			i	i		
Osceola, Mo	20	29.8	21			
Lakeside, Mo	60	61.7	20	61.0		
St. Thomas, Mo.	23	32.3	22	32.9		
Verdigris River: Sageeyah, Okla	35	40.4	22	40.4	April 1929.	
Neosho River:			1			
Parsons, Kans	22	24.8	17			
Oswego, Kans	17	22. 3	17	25.4	April 1927.	
Wyandotte, Okla	23	36.4	20	30.0	April 1912.	
Fort Gibson, Okla	22	33.5	21	35.0	May 1908.	
Arkansas River:			ļ			
Webbers Falls, Okla	23	31.3	21	33. 6	April 1927.	
Fort Smith, Ark	22	31.4	22	36.7	Do,	

Red Basin.—The Red River at Fulton, Ark., and the Little and Sulphur Rivers draining into the Red River in that area exceeded flood stages near the close of the There had been frequent flooding in this section month. during the past few months and no further appreciable damage was caused during April.

The heavy rains in Arkansas during the month resulted in a rise in the upper Ouachita River causing some flooding in the vicinity of Camden, Ark. Damages amounting to \$11,000, mostly to prospective crops, were reported.

West Gulf of Mexico drainage.—The Trinity River over-flowed its banks at Dallas, Tex., twice during the month of the control of the control

reaching the same crest stage (30.7 feet) on both April 20 and 24. The overflow at Dallas was not serious, but at Trinidad, Tex., several hundred acres of bottom land were flooded. Livestock were removed on the basis of flood warnings.

A flash flood occurred on the Bosque River at Hico, Tex., on April 17 and 18, causing damage amounting to

about \$4,500.

The Guadalupe and Nucces Rivers were above flood stage at the end of the month. A report will be made on

these floods in the next issue of the Review.

Excessive rains caused the Pecos River to reach flood stage at Artesia, N. Mex., on April 29. Some lowlands were flooded below Artesia but no damage of importance occurred. However, there was about \$5,000 damage to approaches to bridges by flash floods in tributary streams to the Pecos River in the vicinity of Roswell, N. Mex.

The Rio Grande had approached flood stage at Albu-

querque, N. Mex., at the close of the month.

Colorado River Basin.—Heavy rain over the Verde River

Basin on April 11 produced some high water in the Verde and Salt Rivers. The flow in the Verde is controlled by Bartlett Dam and the peak stage in the Salt River was held to 4.8 feet at Phoenix, Ariz., on April 14. A radio range site located on low ground near the Salt River sustained considerable damage, the extent of which is not known at this time.

Pacific Slope drainage.—Owing to an abnormally wet winter season discharge in Tulare Lake drainage continued much above normal and surplus water not needed for irrigation continued to flow into the Tulare Lake Basin.

Rain was heavy over the upper Sacramento Basin on March 30, when 4.1 inches occurred at Vollmers, Calif. On April 4 excessive rain was again general with another 4.3 inches at Vollmers, and 3.96 inches at Kennett, Calif., in 24 hours.

The Sacramento River crested at Kennett at 19.7 feet and at Red Bluff, Calif., at 26.2 feet on April 4. These stages were higher than for previous floods this season. The Feather and American Rivers were only moderately high and no important rise occurred in the lower San Joaquin. Many of the local creeks caused overflow damage from the rains of April 4 which were especially heavy in the valley and the adjacent foothills.

At Knights Landing, Calif., with a crest stage of 30.9 feet on April 7, there was an overflow into Yolo Bypass. This overflow, together with a heavy discharge of Cache and Putah Creeks materially increased the volume of water in the bypass. This bypass and also Butte Basin and Sutter Bypass have been flooded since December 1940. In some of the areas the water had been pumped or drained out in March. The reflooding in April resulted in further delay in crop planting.

The total losses from the flooding during April have been

estimated to be over \$250,000.

ESTIMATED FLOOD LOSSES AND SAVINGS FOR APRIL 1941

River and drainage	Tangible property	Matured crops	Prospective crops	Livestock and other movablefarm prop- erty	Suspension of busi- ness	Total losses	Total reported sav- ings
East Gulf of Mexico: Pearl River- Mississippi System—Upper Mis- sissippi Basin:					\$1,000	\$1,000	\$1,000
Chippewa River Upper Mississippi River Missouri Basin: Lower Missouri	\$1,000 48,000		\$1,000	\$10,000	2,000	1,000 61,000	5,000
River and tributaries 1	100,000					100,000	3, 500
Ohio Basin: Black and Orchard Creeks <sup>2</sup>	100 3, 200	800	2,050 38,200	400	10, 000	2,150 52,600	15,000
Neosho River in Kansas  Marmaton River  Lower Neosho and Arkansas	15,000 1,500		1,600 1,600			16, 800 7, 100	
Rivers	3,000	5,000	320,000	1,000	10, 000	339,000 31,000,000	190,000
Streams in southwest Missouri Red Basin: Ouachita River	250		10,000	250	500	11,000	11,000
WestGulf of Mexico: Pecos River Pacific Slope: Sacramento River	5, 000 141, 300	10, 600	110, 000	1,000		5, 000 262, 900	

Mainly Osage River and lower Missouri River from Jefferson City to Hermann, Mo.
 Tributaries of Tennessee River in vicinity of Rockwood, Tenn.
 From Press reports; 6 lives lost.